

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
14-Dec-16 12:48

Laboratory Report

Gulf Oil L.P.
281 Eastern Avenue
Chelsea, MA 02150
Attn: Andrew P. Adams

Project: Gulf Terminal - Chelsea, MA
Project #: Gulf Chelsea

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC29001-01	Outfall 003	Surface Water	30-Nov-16 07:00	01-Dec-16 15:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:



June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds primary certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis is transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 3.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1612010

Analyte quantified by quadratic equation type calibration.

Naphthalene

This affected the following samples:

1621081-BLK1
1621081-BS1
1621081-BSD1
Outfall 003
S610283-ICV1
S610389-CCV1

Sample Acceptance Check Form

Client: Gulf Oil L.P.
Project: Gulf Terminal - Chelsea, MA / Gulf Chelsea
Work Order: SC29001
Sample(s) received on: 12/1/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Hits

Lab ID: SC29001-01

Client ID: Outfall 003

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Total Suspended Solids	10.3		0.5	mg/l	SM2540D (11)

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

Outfall 003

SC29001-01

Client Project #

Gulf Chelsea

Matrix

Surface Water

Collection Date/Time

30-Nov-16 07:00

Received

01-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Volatile Organic Aromatics by SW846 8260

Prepared by method SW846 5030 Water MS

71-43-2	Benzene	< 1.0		µg/l	1.0	0.3	1	SW846 8260C	02-Dec-16	03-Dec-16	TS	1621081	
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91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	78			70-130 %			"	"	"	"	"	
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2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
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17060-07-0	1,2-Dichloroethane-d4	117			70-130 %			"	"	"	"	"	
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1868-53-7	Dibromofluoromethane	115			70-130 %			"	"	"	"	"	
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Semivolatile Organic Compounds by GCMS

SVOCs by SIM

Prepared by method SW846 3510C

50-32-8	Benzo (a) pyrene	< 0.051		µg/l	0.051	0.036	1	SW846 8270D SIM	05-Dec-16	06-Dec-16	MSL	1621185	
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91-20-3	Naphthalene	< 0.051		µg/l	0.051	0.027	1	"	"	"	"	"	
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Surrogate recoveries:

205440-82-0	Benzo (e) pyrene-d12	93			30-130 %			"	"	"	"	"	
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General Chemistry Parameters

pH	6.74		pH Units				1	ASTM D 1293-99B	01-Dec-16 17:29	01-Dec-16 19:18	BD	1621045	X
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Total Suspended Solids	10.3		mg/l	0.5	0.2		1	SM2540D (11)	02-Dec-16	06-Dec-16	CMB	1621065	X
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Subcontracted Analyses

Prepared by method 369621

Analysis performed by Phoenix Environmental Labs, Inc. * - MACT007

Oil and Grease by EPA 1664A	< 1.4		mg/L	1.4	1.4		1	E1664A		12-Dec-16 08:26	MACT0	369621A	
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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621081 - SW846 5030 Water MS										
<u>Blank (1621081-BLK1)</u>					<u>Prepared & Analyzed: 02-Dec-16</u>					
Benzene	< 1.0		µg/l	1.0						
Ethylbenzene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
Naphthalene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	40.2		µg/l		50.0		80	70-130		
Surrogate: Toluene-d8	49.3		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	55.7		µg/l		50.0		111	70-130		
Surrogate: Dibromofluoromethane	53.0		µg/l		50.0		106	70-130		
<u>LCS (1621081-BS1)</u>					<u>Prepared & Analyzed: 02-Dec-16</u>					
Benzene	19.6		µg/l		20.0		98	70-130		
Ethylbenzene	17.9		µg/l		20.0		90	70-130		
Methyl tert-butyl ether	20.7		µg/l		20.0		104	70-130		
Naphthalene	19.3		µg/l		20.0		96	70-130		
Toluene	18.5		µg/l		20.0		92	70-130		
m,p-Xylene	17.8		µg/l		20.0		89	70-130		
o-Xylene	18.5		µg/l		20.0		92	70-130		
Surrogate: 4-Bromofluorobenzene	54.7		µg/l		50.0		109	70-130		
Surrogate: Toluene-d8	49.4		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.7		µg/l		50.0		97	70-130		
Surrogate: Dibromofluoromethane	48.4		µg/l		50.0		97	70-130		
<u>LCS Dup (1621081-BSD1)</u>					<u>Prepared: 02-Dec-16 Analyzed: 03-Dec-16</u>					
Benzene	20.4		µg/l		20.0		102	70-130	4	20
Ethylbenzene	18.1		µg/l		20.0		90	70-130	1	20
Methyl tert-butyl ether	21.3		µg/l		20.0		106	70-130	3	20
Naphthalene	19.8		µg/l		20.0		99	70-130	3	20
Toluene	18.8		µg/l		20.0		94	70-130	2	20
m,p-Xylene	18.2		µg/l		20.0		91	70-130	2	20
o-Xylene	19.4		µg/l		20.0		97	70-130	5	20
Surrogate: 4-Bromofluorobenzene	54.3		µg/l		50.0		109	70-130		
Surrogate: Toluene-d8	49.4		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.8		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	47.8		µg/l		50.0		96	70-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621185 - SW846 3510C										
<u>Blank (1621185-BLK2)</u>					<u>Prepared: 05-Dec-16 Analyzed: 06-Dec-16</u>					
Acenaphthene	< 0.050		µg/l	0.050						
Acenaphthylene	< 0.050		µg/l	0.050						
Anthracene	< 0.050		µg/l	0.050						
Benzo (a) anthracene	< 0.050		µg/l	0.050						
Benzo (a) pyrene	< 0.050		µg/l	0.050						
Benzo (b) fluoranthene	< 0.050		µg/l	0.050						
Benzo (g,h,i) perylene	< 0.050		µg/l	0.050						
Benzo (k) fluoranthene	< 0.050		µg/l	0.050						
Chrysene	< 0.050		µg/l	0.050						
Dibenzo (a,h) anthracene	< 0.050		µg/l	0.050						
Fluoranthene	< 0.050		µg/l	0.050						
Fluorene	< 0.050		µg/l	0.050						
Indeno (1,2,3-cd) pyrene	< 0.050		µg/l	0.050						
Naphthalene	< 0.050		µg/l	0.050						
Phenanthrene	< 0.050		µg/l	0.050						
Pyrene	< 0.050		µg/l	0.050						
<i>Surrogate: Benzo (e) pyrene-d12</i>	<i>1.10</i>		µg/l		<i>1.00</i>		<i>110</i>	<i>30-130</i>		
<u>LCS (1621185-BS2)</u>					<u>Prepared: 05-Dec-16 Analyzed: 06-Dec-16</u>					
Acenaphthene	0.706		µg/l	0.050	1.00		71	40-140		
Acenaphthylene	0.712		µg/l	0.050	1.00		71	40-140		
Anthracene	0.741		µg/l	0.050	1.00		74	40-140		
Benzo (a) anthracene	0.746		µg/l	0.050	1.00		75	40-140		
Benzo (a) pyrene	0.781		µg/l	0.050	1.00		78	40-140		
Benzo (b) fluoranthene	0.770		µg/l	0.050	1.00		77	40-140		
Benzo (g,h,i) perylene	0.756		µg/l	0.050	1.00		76	40-140		
Benzo (k) fluoranthene	0.793		µg/l	0.050	1.00		79	40-140		
Chrysene	0.756		µg/l	0.050	1.00		76	40-140		
Dibenzo (a,h) anthracene	0.774		µg/l	0.050	1.00		77	40-140		
Fluoranthene	0.733		µg/l	0.050	1.00		73	40-140		
Fluorene	0.732		µg/l	0.050	1.00		73	40-140		
Indeno (1,2,3-cd) pyrene	0.838		µg/l	0.050	1.00		84	40-140		
Naphthalene	0.758		µg/l	0.050	1.00		76	40-140		
Phenanthrene	0.714		µg/l	0.050	1.00		71	40-140		
Pyrene	0.750		µg/l	0.050	1.00		75	40-140		
<i>Surrogate: Benzo (e) pyrene-d12</i>	<i>1.68</i>		µg/l		<i>2.00</i>		<i>84</i>	<i>30-130</i>		
<u>LCS Dup (1621185-BSD2)</u>					<u>Prepared: 05-Dec-16 Analyzed: 06-Dec-16</u>					
Acenaphthene	0.606		µg/l	0.050	1.00		61	40-140	15	20
Acenaphthylene	0.602		µg/l	0.050	1.00		60	40-140	17	20
Anthracene	0.595	QR2	µg/l	0.050	1.00		60	40-140	22	20
Benzo (a) anthracene	0.643		µg/l	0.050	1.00		64	40-140	15	20
Benzo (a) pyrene	0.686		µg/l	0.050	1.00		69	40-140	13	20
Benzo (b) fluoranthene	0.672		µg/l	0.050	1.00		67	40-140	14	20
Benzo (g,h,i) perylene	0.667		µg/l	0.050	1.00		67	40-140	13	20
Benzo (k) fluoranthene	0.700		µg/l	0.050	1.00		70	40-140	12	20
Chrysene	0.646		µg/l	0.050	1.00		65	40-140	16	20
Dibenzo (a,h) anthracene	0.653		µg/l	0.050	1.00		65	40-140	17	20
Fluoranthene	0.605		µg/l	0.050	1.00		60	40-140	19	20
Fluorene	0.625		µg/l	0.050	1.00		62	40-140	16	20
Indeno (1,2,3-cd) pyrene	0.740		µg/l	0.050	1.00		74	40-140	12	20
Naphthalene	0.630		µg/l	0.050	1.00		63	40-140	18	20
Phenanthrene	0.560	QR2	µg/l	0.050	1.00		56	40-140	24	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621185 - SW846 3510C										
<u>LCS Dup (1621185-BSD2)</u>					<u>Prepared: 05-Dec-16 Analyzed: 06-Dec-16</u>					
Pyrene	0.614		µg/l	0.050	1.00		61	40-140	20	20
Surrogate: Benzo (e) pyrene-d12	1.06		µg/l		1.00		106	30-130		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621045 - General Preparation										
<u>Duplicate (1621045-DUP1)</u>				<u>Source: SC29001-01</u>				<u>Prepared & Analyzed: 01-Dec-16</u>		
pH	6.75		pH Units			6.74			0.1	5
<u>Reference (1621045-SRM1)</u>								<u>Prepared & Analyzed: 01-Dec-16</u>		
pH	6.03		pH Units		6.00		100	97.5-102.5		
<u>Reference (1621045-SRM2)</u>								<u>Prepared & Analyzed: 01-Dec-16</u>		
pH	5.98		pH Units		6.00		100	97.5-102.5		
Batch 1621065 - General Preparation										
<u>Blank (1621065-BLK1)</u>								<u>Prepared: 02-Dec-16 Analyzed: 06-Dec-16</u>		
Total Suspended Solids	< 0.5		mg/l	0.5						
<u>LCS (1621065-BS1)</u>								<u>Prepared: 02-Dec-16 Analyzed: 06-Dec-16</u>		
Total Suspended Solids	100		mg/l	10.0	100		100	90-110		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 369621A - 369621										
<u>BLK (BV93731-BLK)</u>					<u>Prepared & Analyzed: 12-Dec-16</u>					
Oil and Grease by EPA 1664A	< 1.4		mg/L	1.4	40			-		
<u>LCS (BV93731-LCS)</u>					<u>Prepared: Analyzed: 12-Dec-16</u>					
Oil and Grease by EPA 1664A	39.70		mg/L	1.4	40		99	85-115		20

Notes and Definitions

QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
OG	The required Matrix Spike and Matrix Spike Duplicate (MS/MSD) for Oil & Grease method 1664B can only be analyzed when the client has submitted sufficient sample volume. An extra liter per MS/MSD is required to fulfill the method QC criteria. Please refer to Chain of Custody and QC Summary (MS/MSD) of the Laboratory Report to verify ample sample volume was submitted to fulfill the requirement.
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

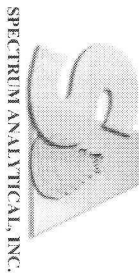
Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed

Report To: Andrew Adams

Gulf Oil LP
281 Eastern Ave
Chelsea, MA 02150
617.884.5980
Andrew Adams

Invoice To: Christopher Gill

Gulf Oil LP
80 William St, Suite 400
Wellesley, MA 02481-3705

Project No:

Site Name:

Location:
Sampler(s):

Gulf Chelsea
Gulf Chelsea Terminal
281 Eastern Ave, Chelsea

State: MA

F=Field Filtered

1=Na₂SO₃ 2=HCl 3=H₂SO₄
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄

4=HNO₃ 5=NaOH 6=Ascorbic Acid
11= none 12=

DW=Drinking Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

O=Oil

SO=Soil

SL=Sludge

A=Indoor/Ambient Air

SG=Soil Gas

X1=

X2=

X3=

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

TSS, pH

O&G

VOCs (benzene & naphthalene)

PAH (benz(a) pyrene & naphthalene)

Check if chlorinated

Q/A/QC Reporting Notes:
* additional charges may apply

Required MLs:

benzene 2 µg/L

naphthalene 5 µg/L

benzo(a)pyrene 0.1 µg/L

Relinquished by:

Received by:

Date:

Time:

Temp °C

Observed

Corrected

Condition upon receipt

Custody Seals

Present

Intact

Broken

EDD format:

E-mail to: aadams@gulfoil.com, cgill@gulfoil.com

Condition upon receipt

Custody Seals

Present

Intact

Broken

Condition upon receipt

Custody Seals

Present

Intact

Broken

Condition upon receipt

Custody Seals

Present

Intact

Broken

Condition upon receipt

Custody Seals

Present

Intact

Broken

Condition upon receipt

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